

ABSTRACT

It is possible to radiosensitize tumor cells by administration of compositions containing the Human antisense c-raf-1 oligodeoxyribonucleotide (ODN/oligo) sequence:

*Su
C*
5'-GTGCTCCATTGATGC-3' (seq. #1) wherein only the end bases are phosphorylated is a preferred embodiment. Antisense sequences of up to 40 bases which containing this sequence may be used in accord with the teachings of this disclosure. Compositions comprising a cationic liposome of dimethyldioctadecyl ammonium bromide, phosphatidylcholine and cholesterol may be used as a carrier system. The liposomes provide a new carrier system that is particularly useful for administration of sequences for therapy.